

Figure 1. Apparatus to measure surface resistivity.

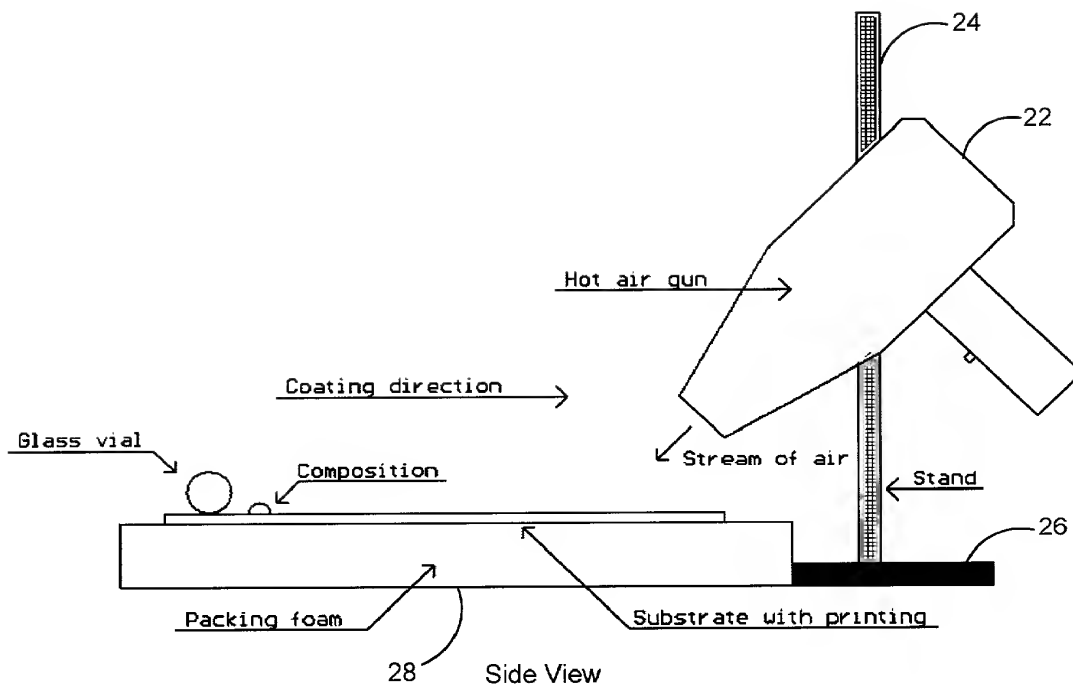
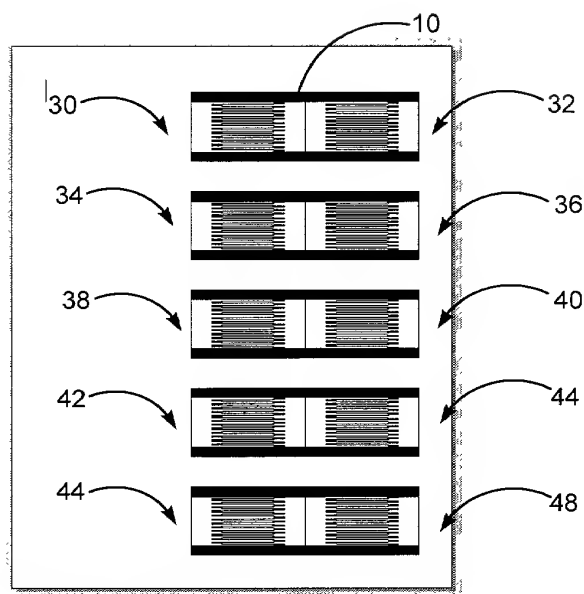
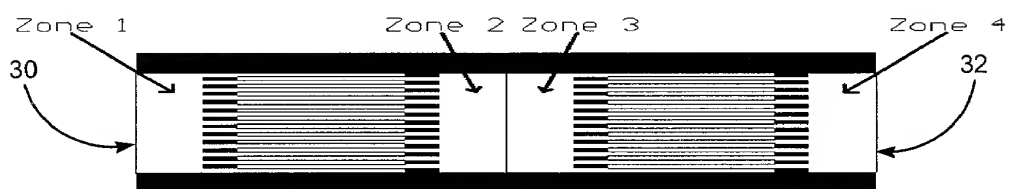


Figure 2A.

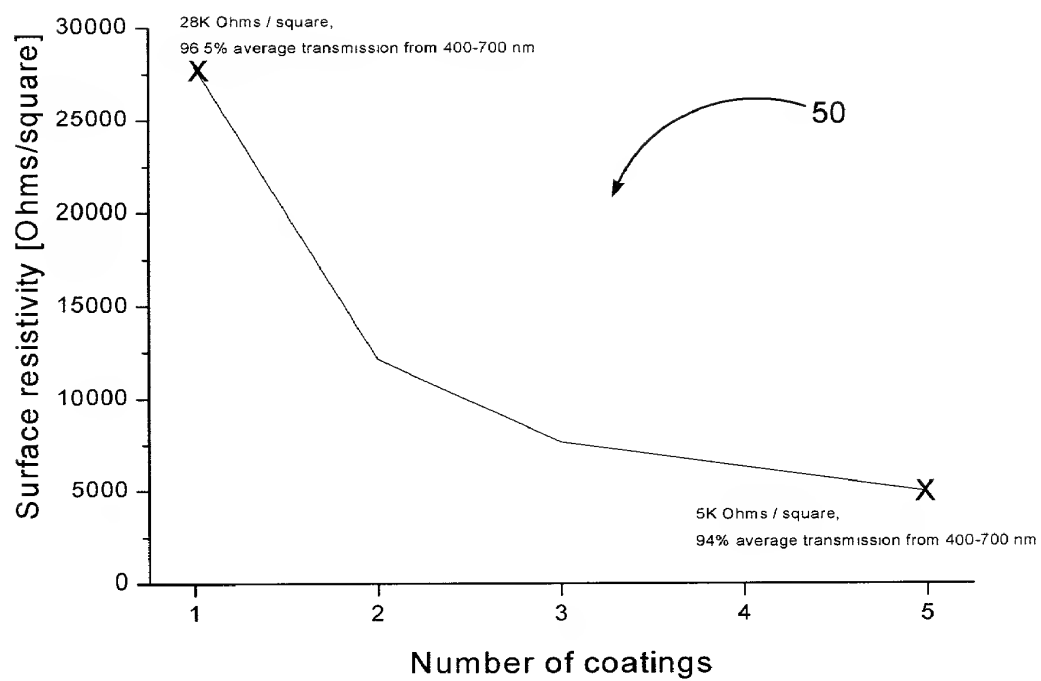
**Figure 2B. Coating apparatus.**



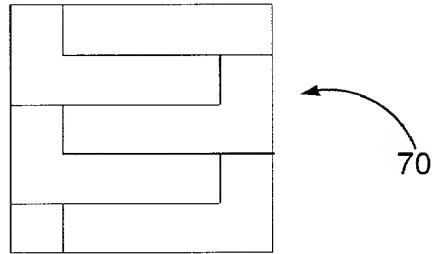
**Figure 3. Printed pattern on letter size substrate.**



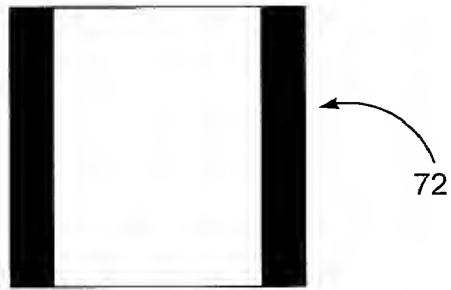
**Figure 4. Areas (zones) used for measurement of surface resistivity and resistance.**



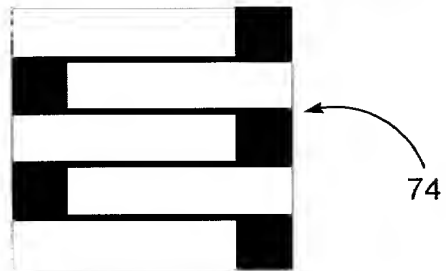
**Figure 5. Surface resistivity versus number of coatings.**



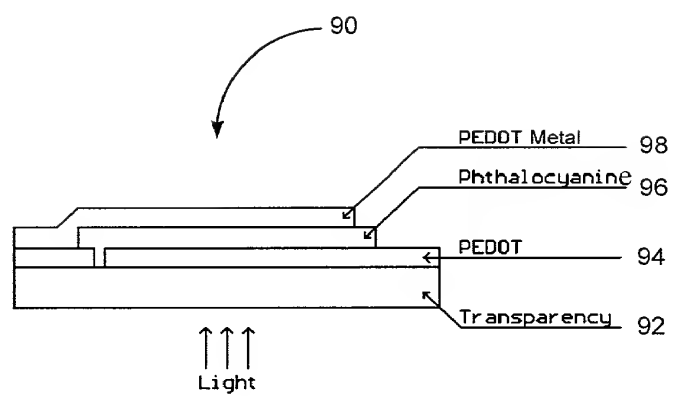
**Figure 6. First layer of solar cell.**



**Figure 7. Second layer of the solar cell.**



**Figure 8. Third layer of the solar cell.**



**Figure 9. Layer structure of the device.**

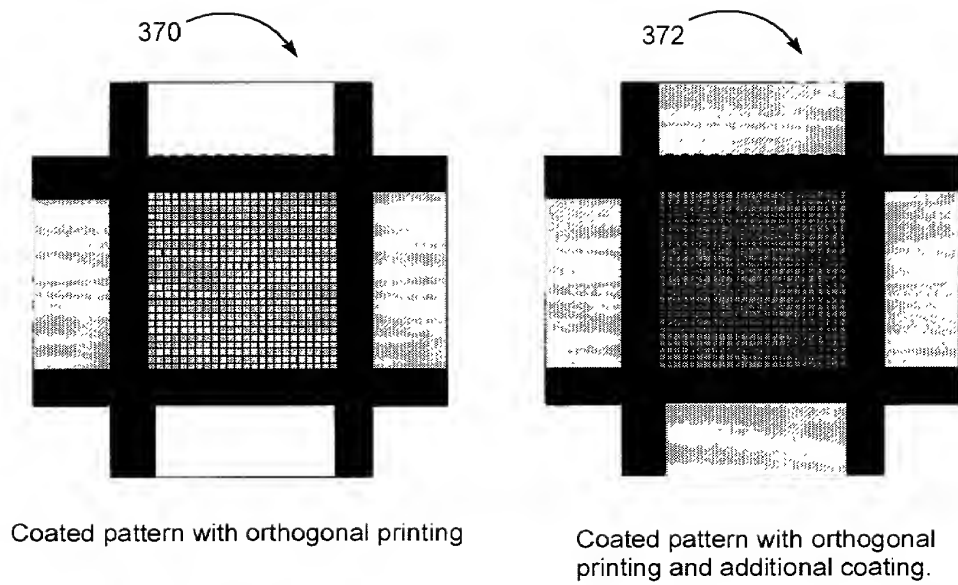


Figure 10.

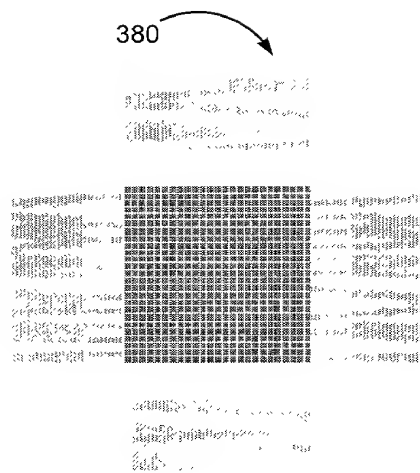
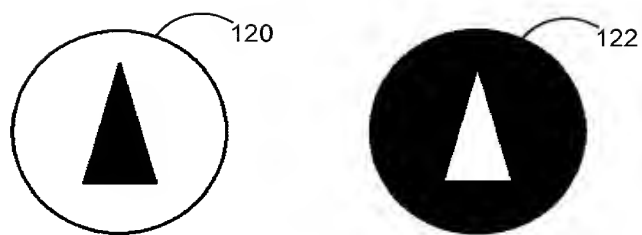


Figure 11.





**Figure 12. Front side of two wheels.**

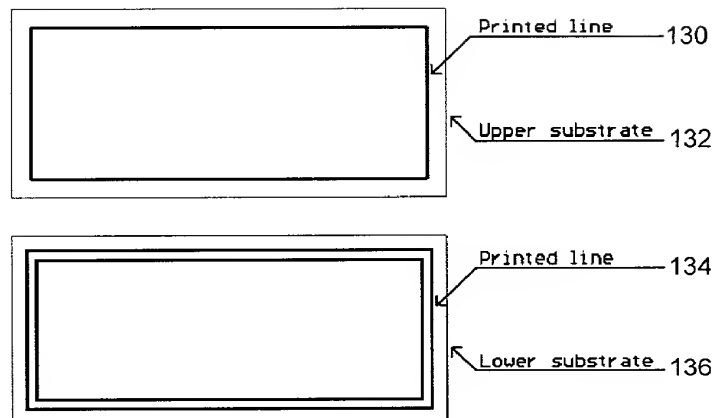


Figure 13.

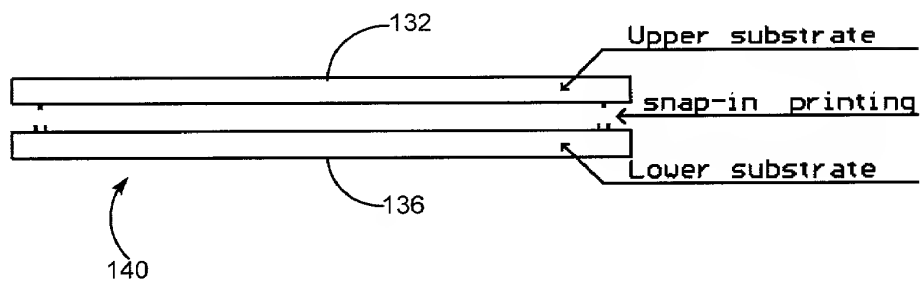
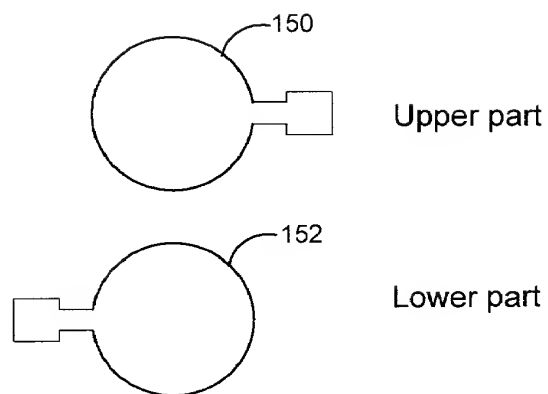
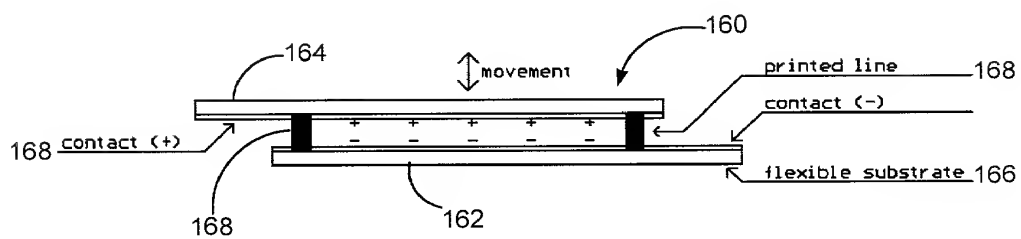


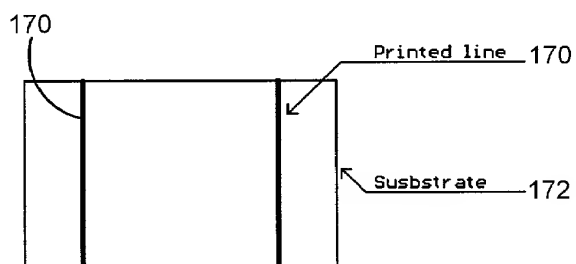
Figure 14.



**Figure 15.**



**Figure 16.**



**Figure 17.**

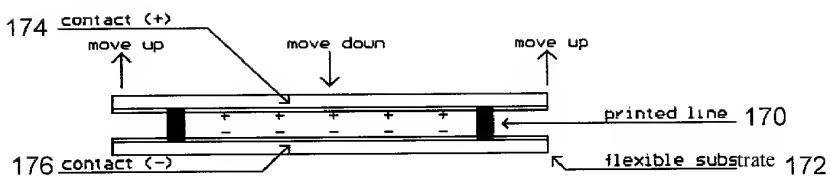
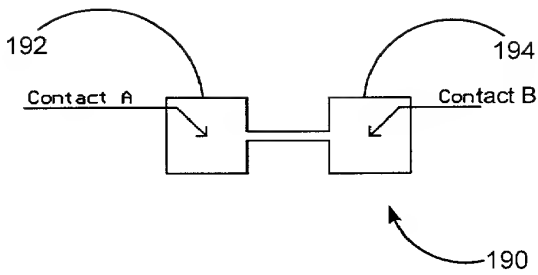
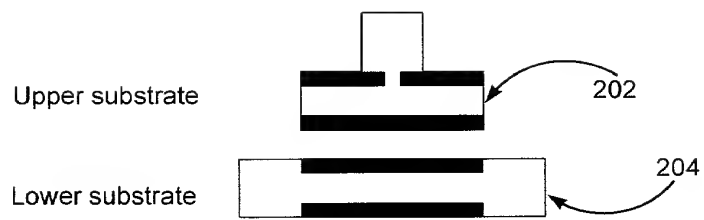


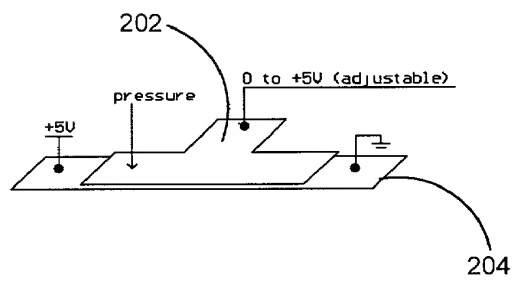
Figure 18.



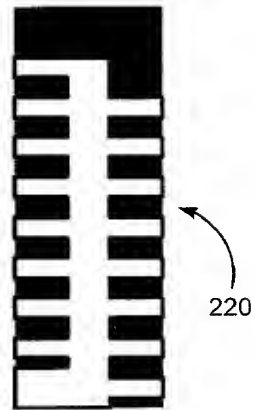
**Figure 19.**



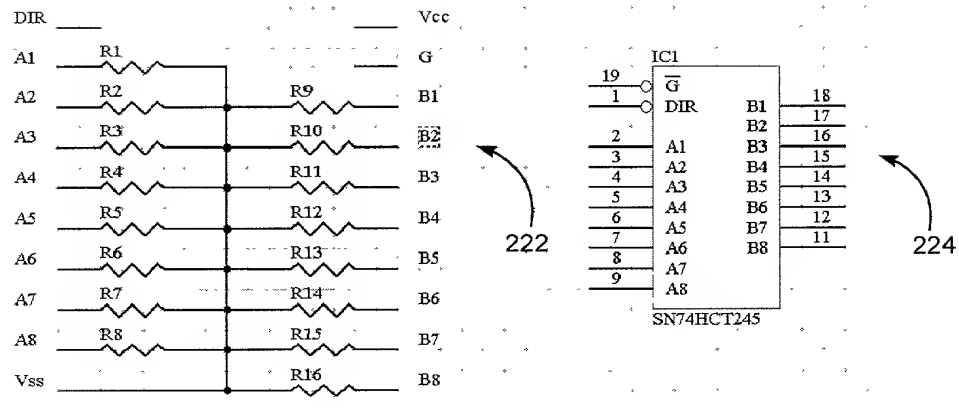
**Figure 20.**



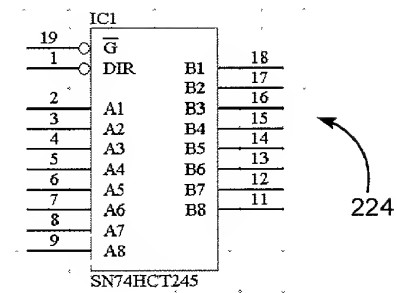
**Figure 21.**



**Figure 22A.**



**Figure 22B.**







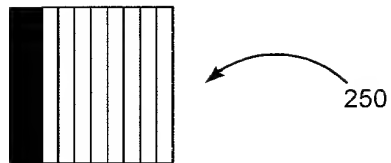


Figure 25.

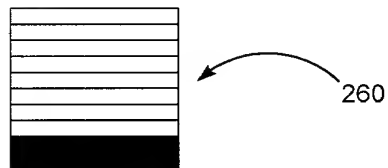


Figure 26.

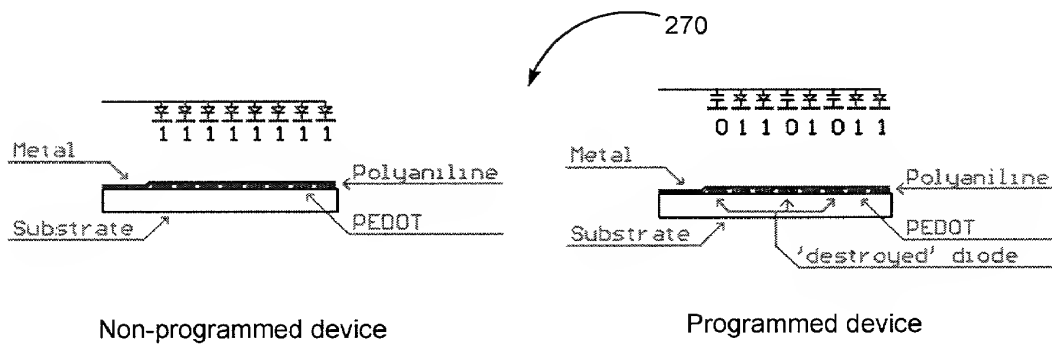
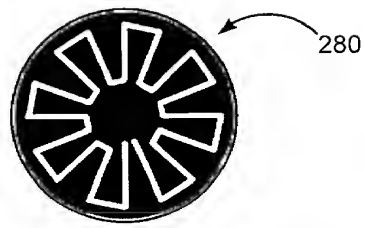
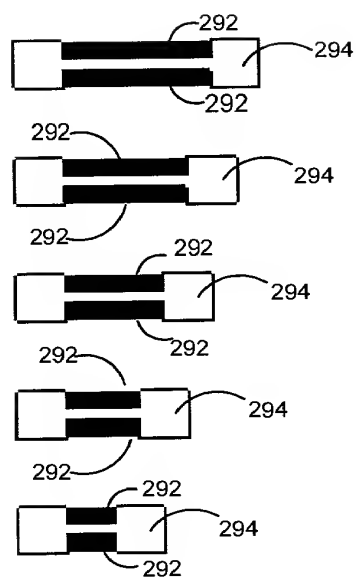


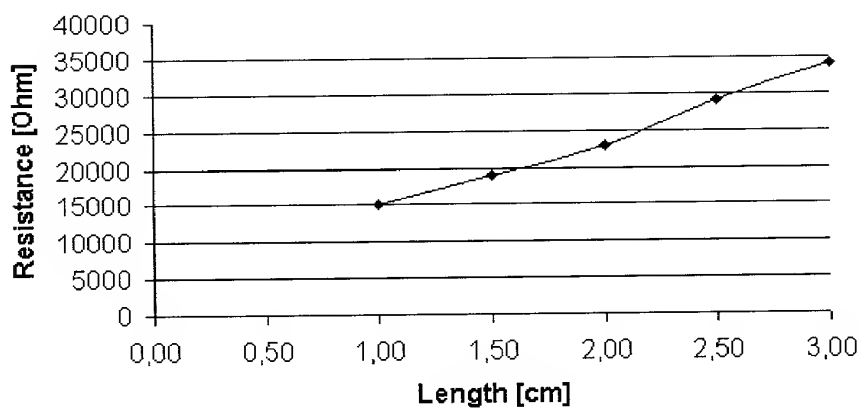
Figure 27.



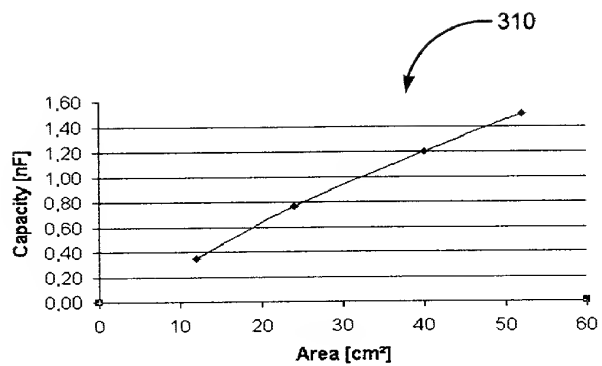
**Figure 28.**



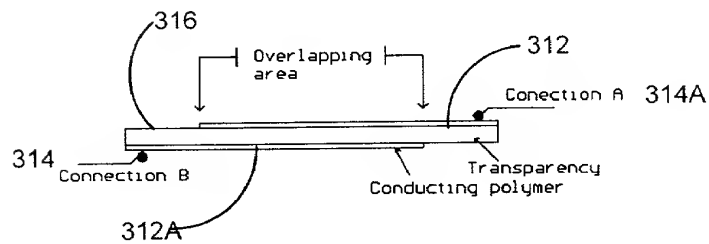
**Figure 29. Pattern for resistors.**



**Figure 30. Dependence of the absolute resistance on the length of the resistor.**

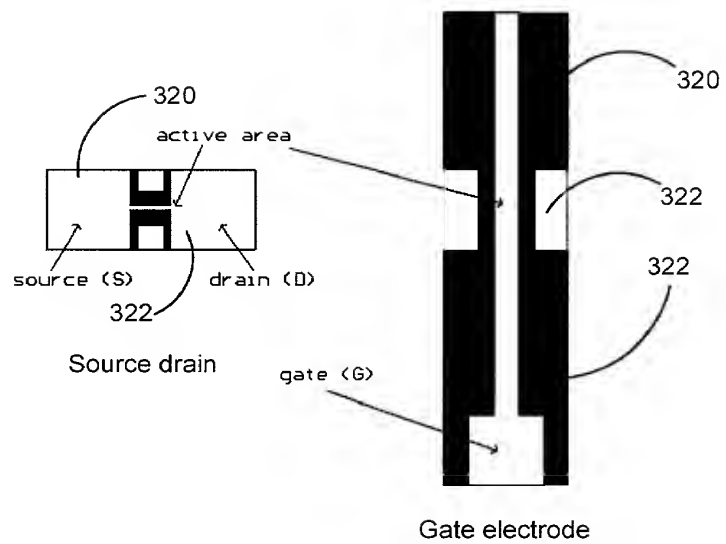


**Figure 31A.**

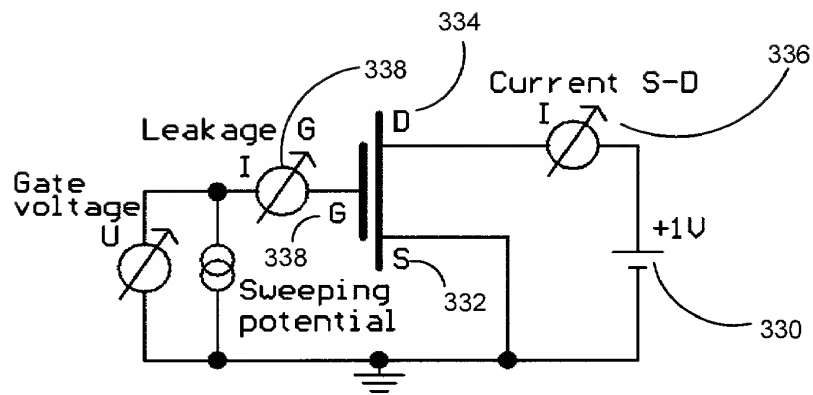


**Figure 31B.**

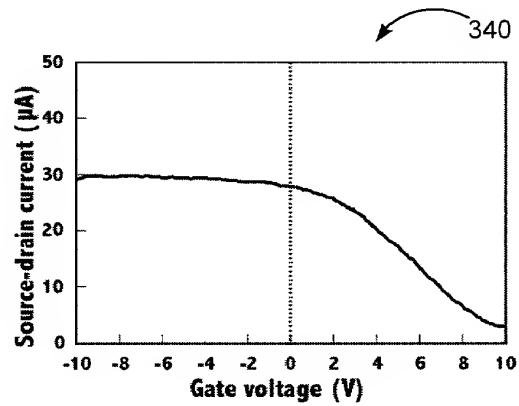
**Figure 31. Dependence of the capacitance on the size of two insulated, overlapping areas of the conducting polymer PEDOT-PSS insulated from each other.**



**Figure 32. Negative image of a pattern used for the FET-like device.**



**Figure 33. Schematic of the measurement assembly used to characterize the FET-like device.**



**Figure 34. I/U characteristics of the FET-like device.**

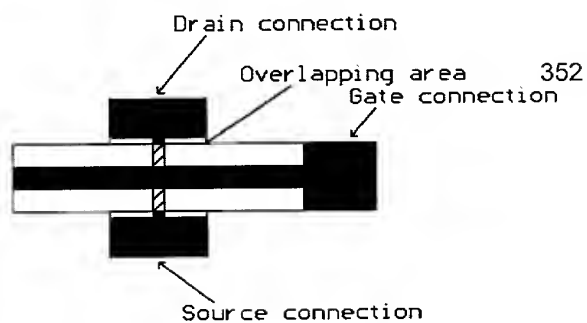
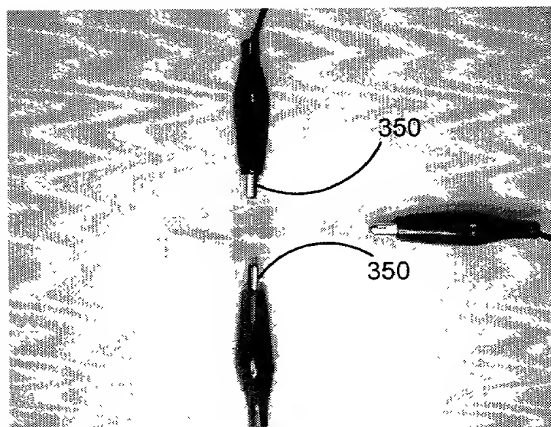
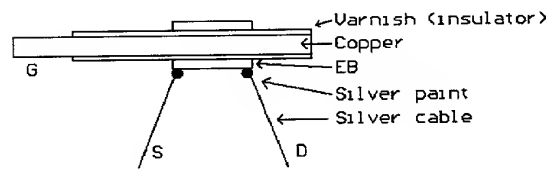
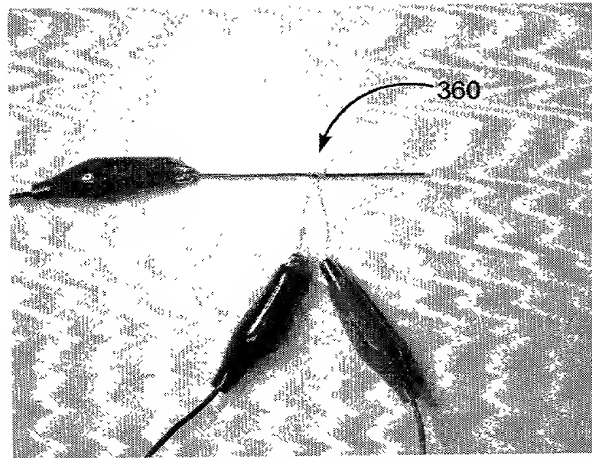


Figure 35. Operational device.



**Figure 36. Operational FET-like device made from a coated copper cable, EB, silver paint and silver wires.**